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1 Lightweight remote procedure call
Brian N. Bershad, Thomas E. Anderson, Edward D. Lazowska, Henry M. Levy
February 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 1

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Lightweight Remote Procedure Call (LRPC) is a communication facility designed and optimized for on the same machine. In contemporary small-kernel operating systems, existing RPC systems inc the type of communication that predominates—between protection domains on the same machine weakly related subsystems into the same protection domain, trading safety for ...

2 Compiler transformations for high-performance computing
David F. Bacon, Susan L. Graham, Oliver J. Sharp
December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

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In the last three decades a large number of compiler transformations for optimizing programs hav uniprocessors reduce the number of instructions executed by the program using transformations t data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and par memory locality with transformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism,

3 Data-Driven and Demand-Driven Computer Architecture
Philip C. Treleaven, David R. Brownbridge, Richard P. Hopkins
January 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

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4 The family of concurrent logic programming languages
Ehud Shapiro
September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: pdf(9.62 MB) Additional Information: full citation, abstract, references, citir

Concurrent logic languages are high-level programming languages for parallel and distributed syst and novel concurrent programming techniques. Being logic programming languages, they preserv programming model, including the logical reading of programs and computations, the convenience terms and manipulating them using unification, and the amenability to metaprogrammin ...

5

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Keith D. Cooper, Ken Kennedy, Linda Torczon
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4
Full text available: pdf(2.87 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In spite of substantial progress in the theory of interprocedural data flow analysis, few practical compiling systems can afford to apply it to produce more efficient object programs. To perform interprocedural analysis, a compiler needs not only the source code of the module being compiled, but also information about the side effects of every procedure in the program containing that module, even separately compiled procedures. In a conventional batch compiler system, the increase in compil ...

2 The impact of interprocedural analysis and optimization on the design of a software development environment
Keith D. Cooper, Ken Kennedy, Linda Torczon
June 1983 **Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 18 , 20 Issue 6 , 7
Full text available: pdf(971.84 KB) Additional Information: full citation, abstract, references, index terms

One of the primary goals of the IRn programming environment project is to mount a concerted attack on the problems of performing interprocedural analysis and optimization in a compiler. Few commercial optimizing compilers employ interprocedural techniques because the cost of gathering the requisite information in a traditional compiler is too great. Computing the side effects of a procedure call requires detailed knowledge of the internals of both the called procedure a ...

3 Fast object-oriented procedure calls: lessons from the Intel 432
E. F. Gehringer, R. P. Colwell
June 1986 **ACM SIGARCH Computer Architecture News , Proceedings of the 13th annual international symposium on Computer architecture**, Volume 14 Issue 2
Full text available: pdf(995.24 KB) Additional Information: full citation, abstract, references, citings, index terms

As modular programming grows in importance, the efficiency of procedure calls assumes an ever more critical role in system performance. Meanwhile, software designers are becoming more aware of the benefits of object-oriented programming in structuring large software systems. But object-oriented programming requires a good deal of support, which can best be distributed between the compiler and architectural levels. A major part of this support relates to the execution of procedure calls. Mus ...